Journal of
Applied
Crystallography
ISSN 1600-5767

addenda and errata

An X-ray diffractometer using mirage diffraction. Erratum

Tomoe Fukamachi,[a]* Sukswat Jongsukswat,[a] Dongying Ju,[a] Riichirou Negishi,[a] Keiichi Hirano[b] and Takaaki Kawamura[c]

[a]Saitama Institute of Technology, Fukaya, Saitama 369-0293, Japan, [b]Institute of Material Structure Science, KEK-PF, High Energy Accelerator Research Organization, Tsukuba, Ibaraki 305-0801, Japan, and [c]University of Yamanashi, Kofu 400-8510, Japan. Correspondence e-mail: tomoe-f@wonder.ocn.ne.jp

Errors in the article by Fukamachi, Jongsukswat, Ju, Negishi, Hirano & Kawamura [*J. Appl. Cryst.* (2014), **47**, 1267–1272] are corrected.

In the article by Fukamachi *et al.* (2014), there are errors in Fig. 2 (§2, p. 1268) and in equations (12)–(16) (§4, p. 1270–1271).

The equations should read

$$\delta WX_0 = \frac{|\delta \mathbf{K}_E|}{\cos\theta_{\rm B}}, \tag{12}$$

$$\frac{\delta E}{E} = \frac{|\chi_h|}{2}\delta W, \tag{13}$$

$$\delta E = E\,\delta\alpha\,\frac{\sin 2\theta_{\rm B}}{2}, \tag{14}$$

$$\delta E = \frac{|\chi_h| E}{2}\left[1 - \left(1 + \frac{\beta^2 x^2}{4}\right)^{1/2}\right] \tag{15}$$

and

$$\mathrm{d}E = \frac{|\chi_h|}{2}\left(1 + \frac{\beta^2 x^2}{4}\right)^{-1/2}\frac{\beta^2}{4}Ex\,\mathrm{d}x. \tag{16}$$

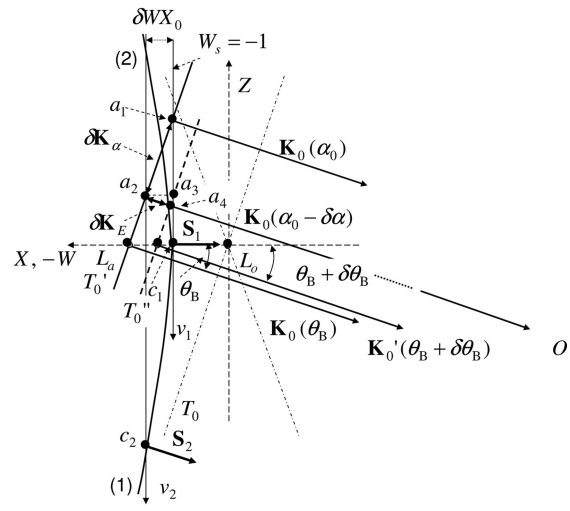

Figure 1
As the last sentence of the caption of Fig. 2 of Fukamachi *et al.* (2014), the following sentence should be added: $|\delta \mathbf{K}_E|$ is the distance between a_2 and a_4.

Then, rather than the value of 11 meV for $|\delta E|$ in the first line of the left column on p. 1271, the value should read 10 meV. Rather than −3.0, −5.0, −6.7 and −7.9 meV for the values of δE in Table 1, they should read −2.7, −4.6, −6.2 and −7.3 meV, respectively. In spite of these corrections, the conclusions are not affected.

As the last sentence of the caption of Fig. 2 of Fukamachi *et al.* (2014), the following sentence should be added: $|\delta \mathbf{K}_E|$ is the distance between a_2 and a_4. Fig. 2 of Fukamachi *et al.* (2014) is updated as Fig. 1 in the current article to reflect the correction.

References

Fukamachi, T., Jongsukswat, S., Ju, D., Negishi, R., Hirano, K. & Kawamura, T. (2014). *J. Appl. Cryst.* **47**, 1267–1272.